

Electronic supplementary information

**An aptamer array for discriminating tetracycline antibiotics based on binding-enhanced
intrinsic fluorescence**

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Family 1

C49 GGAGGCTCTCGGGACGACCACAGCTTGCTGCGGTCTTTACCAGTAGGTCGTCCCGCCTTTAGGATTACA- 71 #
C3 GGAGGCTCTCGGGACGACCACAGCTTGCTGCGGGTCTCTCTCCCGTAGGTCGTCCCGCCTTTAGGATTACA- 72 #
C19 GGAGGCTCTCGGGACGACCACAGCTTGCTGCGGGTCTCCCTCCCGTAGGTCGTCCCGCCTTTAGGATTACA- 72 #
C4 GGAGGCTCTCGGGACGACCAAAGCTTGCTTCGGTCTCTCGTGTCCGCAAGTCGTCCCGCCTTTAGGATTACA- 72 #
C59 GGAGGCTCTCGGGACGACCATAGCTTGCTAGGGTCTTCCAACCCAGGTCGTCCCGCCTTTAGGATTACA- 71 #
C21 GGAGGCTCTCGGGACGACCATAGCTTGCTATCGTTCC-TACACGACAGGTCGTCCCGCCTTTAGGATTACA- 71 #
C27 GGAGGCTCTCGGGACGACCATAGCATGTATCGTTCC-TACACGACAGGTCGTCCCGCCTTTAGGATTACA- 71 #
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C66 GGAGGCTCTCGGGACGACCAAAGCTTGCTTTCATTCCCTTAATGCAGGTCGTCCCGCCTTTAGGATTACA- 72 #
C65 GGAGGCTCTCGGGACGACCATAGCGTGTCTACATTTTCAGAGTGCAGGTCGTCCCGCCTTTAGGATTACA- 72 #
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C97 GGAGGCTCTCGGGACGACCACAGTCTTGTCTGTCGATNTTATCGATAGGTCGTCCCGCCTTTAGGATTACA- 72 #
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Family 2 #

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C42 GGAGGCTCTCGGGACGACGGGCCGTGTTTTACGCAGTCTTATCTTTGTCGTCCCGCCTTTAGGATTACA- 72 #
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C29 GGAGGCTCTCGGGACGACGGGCACAACCTTACATTGTACGTTTCATCTTTGTCGTCCCGCCTTTAGGATTACA- 72 #
C31 GGAGGCTCTCGGGACGACGGGCACAACCTTCAATTGTACGTTTCATCTTTGTCGTCCCGCCTTTAGGATTACA- 72 #

C8 GGAGGCTCTCGGGACGACGGGCAAGATCTATTCTTCACGTTTCATCTTTGTCGTCCCGCCTTTAGGATTACA- 72 #
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C16 GGAGGCTCTCGGGACGACGGGCAAGTCTATACTTCACGTTTCATCTTTGTCGTCCCGCCTTTAGGATTACA- 72 #
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C72 GGAGGCTCTCGGGACGACGGGCAAC-TCTTAAGTTCACGTTTCACCTTTGTCGTCCCGCCTTTAGGATTACA- 71 #
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C92 GGAGGCTCTCGGGACGACGGGCAACTCAGAGAGTTCACGTTTCACCTTTGTCGTCCCGCCTTTAGGATTACA- 72 #
C96 GGAGGCTCTCGGGACGACGGGCAACTCATAGAGTTCACGTTTCACCTTTGTCGTCCCGCCTTTAGGATTACA- 72 #
C30 GGAGGCTCTCGGGACGACTTGGGCAC-TTCCGT--CACGTTTCACCTTTAAGTCGTCCCGCCTTTAGGATTACA- 71
C93 GGAGGCTCTCGGGACGACATGGGCAGTCTTACT--CACCTCCACGTTTATGTCGTCCCGCCTTTAGGATTACA- 72 #
C36 GGAGGCTCTCGGGACGACATGGGCCGTTTCATCG--CACGTTTATCTTTATGTCGTCCCGCCTTTAGGATTACA- 72 #
C40 GGAGGCTCTCGGGACGACATGGGCACAATTTGT--CACCTTATGTTTATGTCGTCCCGCCTTTAGGATTACA- 72 #
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Family 3

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C100 GGAGGCTCTCGGGACGACGCAGATCTACCTGTAGTCATAGCTTGCTACGTCGTCCCGCCTTTAGGATTACA- 72 #
C37 GGAGGCTCTCGGGACGACGCAGGTGCTTCGGATCCATAGCTTGCTACGTCGTCCCGCCTTTAGGATTACA- 72 #
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C94 GGAGGCTCTCGGGACGACGCAGAATTCCGATTATTCATAGCGTGCTACGTCGTCCCGCCTTTAGGATTACA- 72 #
C63 GGAGGCTCTCGGGACGACACAGATAACTTTGTTATCATAGCGTGCTATGTCGTCCCGCCTTTAGGATTACA- 72 #
C90 GGAGGCTCTCGGGACGACTCAGAGGACCTGTGCCTCATAGCGTGCTAAGTCGTCCCGCCTTTAGGATTACA- 72 #
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C11 GGAGGCTCTCGGGACGACGCAGACATCTTGTGTGTCATAGCGCGCTACGTCGTCCCGCCTTTAGGATTACA- 72 #
C46 GGAGGCTCTCGGGACGACGCAGACATCTTGTGTTGTCATAGCGCGCTACGTCGTCCCGCCTTTAGGATTACA- 72 #
C33 GGAGGCTCTCGGGACGACGCAGACATC-TTTGTGTCATAGCGCGCTACGTCGTCCCGCCTTTAGGATTACA- 71 #
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Family 4

C26 GGAGGCTCTCGGGACGACATAGCTTGCTACACTCGTCTCCGTAGTGCAAGTCGTCCCGCCTTTAGGATTACA- 72 #
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Family 5

C34 GGAGGCTCTCGGGACGACGCAGTCTGATTTTTCAGCCATAGTTTTACTACGTCGTCCCGCCTTTAGGATTACA- 72 #
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Family 6

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C74 GGAGGCTCTCGGGACGACGTAACGTTTACCTCCAAATGCAGTTTGGTCGTCGTCCCGCCTTTAGGATTTACA- 72 #
 C25 GGAGGCTCTCGGGACGACGGAACAGTTTACGATGTCCTGTACATGCAATGTCGTCCCGCCTTTAGGATTTACA- 72 #
 C51 GGAGGCTCTCGGGACGACGTCGCAGCCTTGTGCGTAGTGTTTACCTCGTCGTCCCGCCTTTAGGATTTACA- 72 #
 C64 GGAGGCTCTCGGGACGACGTTAACAGCTGTGTTATATATCGTTTACCTCGTCGTCCCGCCTTTAGGATTTACA- 72
 C2 GGAGGCTCTCGGGACGACGCAATGTCCTTCGCAGGATCCGTTTACGGTGTTCGTCCCGCCTTTAGGATTTACA- 72
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Family 7

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 C73 GGAGGCTCTCGGGACGACGTGCTATTGCCTTGATCACCCGGTCAAGTTCGTCGTCCCGCCTTTAGGATTTACA- 72 #
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 C70 GGAGGCTCTCGGGACGACGTGCTATTGCCTGTTTCTTGTGTAACAGTTCGTCGTCCCGCCTTTAGGATTTACA- 72 #
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 C89 GGAGGCTCTCGGGACGACGTGCTATTGCCCTGAGCTTCGTTCTGGTTCGTCGTCCCGCCTTTAGGATTTACA- 72 #
 C23 GGAGGCTCTCGGGACGACGTGCTATTTGCCTCAGTCATTCTCTGAGTTCGTCGTCCCGCCTTTAGGATTTACA- 72 #
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Family 9

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 C18 GGAGGCTCTCGGGACGACTGGACCCTTTGTGGTGAATTTCCGATATGTCGTCCCGCCTTTAGGATTTACA- 72 #
 C69 GGAGGCTCTCGGGACGACTGGACCCTTTGTGGTGAATTTCCGATATGTCGTCCCGCCTTTAGGATTTACA- 72

Family 10

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Orphan sequences

C7 GGAGGCTCTCGGGACGACGGCCAGTGACATTTCTGGGTGCTCACTCGTCGTCCCGCCTTTAGGATTTACA- 72
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 C86 GGAGGCTCTCGGGACGACTGGTCGT-TTCCGCGATTCCGTTGATCTCAGTTCGTCCCGCCTTTAGGATTTACA- 71
 C88 GGAGGCTCTCGGGACGACAGCTTACTCGATTTTTCAGGTTGCATCGATGTCGTCCCGCCTTTAGGATTTACA- 72 #
 C60 GGAGGCTCTCGGGACGACGCACATCAATCTCTTTGATGCGGGCCGTCGTCCCGCCTTTAGGATTTACA- 72 #
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 C95 GGAGGCTCTCGGGACGACATCAAGGGTTCCTCTTTAGCTGGGTTTCATGTCGTCCCGCCTTTAGGATTTACA- 72

